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ANNEX "A"

PHOTO INTELLIGENCE NEEDS WITHIN CIA

(based on a preliminary survey)

1. Within ORR

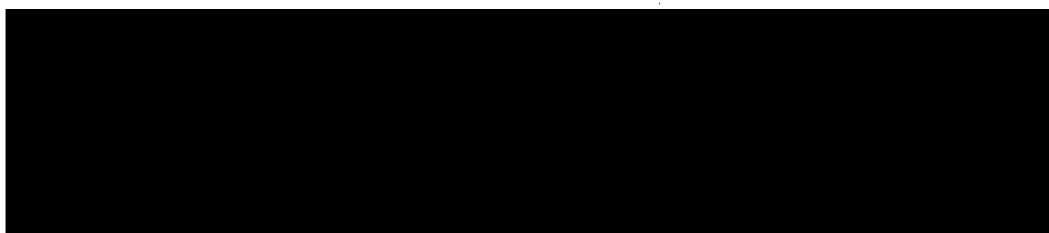
Photo intelligence needs within ORR fall into two well-defined categories:

- a. Geographic analysis of specific areas, involving the study of terrain in its broadest sense;
- b. the analysis of industrial and other economic installations.

There is a continuing demand for each type of service. For much of this work, available captured German and World War II photography is useful, although more recent reconnaissance and mapping photography will yield more complete and precise information.

The Geographic area within ORR is conducting, on a program basis, a series of detailed area studies dependent in varying degrees upon proper photo intelligence. These studies are in direct support of CIA operational planning and field activities. Current studies include:

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- c. Comprehensive operational studies for areas in the Far East.
- d. Certain urban area analyses.

Studies, such as the above, give particular attention to availability and characteristics of cover for concealment, alignment and quality of terrain, availability of water supply and the presence of water barriers, concentrations of people and small non-urban industries, and precise location and probable traffic on roads. Coastal studies include, in addition, consideration of beach characteristics and routes for penetration.

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The Economic area of ORR requires detailed photo analysis of industrial plants and other installations in order to estimate input and output, labor requirements and expansion trends at specific points. A series of "trial runs", in several branches of the Industrial Division, have shown that captured German photography supplies enough previously unknown information to make further exploitation of air photography imperative. Published photo interpretations from the Air Force do not fulfill the requirements of ORR analysts. Typical questions for economic analysis that can be answered by photo intelligence are:

- a. What dependence can be placed on POW interrogations for specific installations?
- b. What is the flow plan of a specific plant?
- c. Can final assembly be performed at the plant?
- d. Are there structural bottlenecks at the plant?
- e. What are the possibilities for expansion?

Precise measurements of floor space give an indication of equipment and labor utilization within specific types of plants. Analyses have been made on air frame and air engine, machine tools and explosive and loading plants. Such analyses go far deeper into utilization of air photos than military photo interpretations for target purposes.

2. Within OSI

In order to obtain details on the research and development activities of the Soviet Union, information on installations is required by OSI in the same detail as that required by the Economic area of ORR. Unfortunately, many of the known and suspected installations of direct interest to OSI are not covered by available air photography. In support of OSI, the Geographic area of ORR has been conducting a detailed study of one location to determine the utilization of the area as an experimental site for military R&D. The study is being handicapped by the lack of air photography. OSI has a continuing requirement for intelligence obtained from reconnaissance photography on observed sites for guided missiles, and on locations of radar antennae and any other major or minor installations of similar nature. Requirements are also anticipated for more comprehensive photo analysis where Air Force photo interpretation reports are insufficient but indicate the presence of items of interest to that Office.

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3. Within Areas under DD/P

In addition to the studies undertaken by the Geographic area of ORR in support of operational planning and field activity, the components of these areas have a variety of other requirements for extremely detailed photo analyses to provide as accurate information as possible, frequently involving the preparation of cartographic materials more precise than any currently available.

Two requirements of this type both involving air photography of greatly varying quality are in process and give definite indications of the type of special skills required to fulfill future requests for photo analysis from these areas.

4. Within OOI

OOI and associated components have a variety of requests for photo intelligence that are similar in character to those of the other Offices mentioned.

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ANNEX "B"

PROPOSED METHOD OF OPERATION FOR THE PHOTO-INTELLIGENCE STAFF

1. The conventional techniques and operating procedures practiced in the photo interpretation units in the Department of Defense fall far short of those required to fulfill the special needs for photo intelligence within CIA. These shortcomings involve the lack of collaboration with substantive analysts who initiate requests, inability and inexperience in utilizing photography of varying quality with little or no control, and inexperience and disinterest in the details of areas and installations beyond those required for target analysis and military operations.
2. Each photo analyst is skilled in photo interpretation techniques but has his own most highly developed capability within a relatively limited substantive field of interest. As a result, several photo analysts with varying substantive backgrounds are necessary to form an effective team. These analysts, in turn, will maintain close liaison with their counterparts in the military photo interpretation centers who have closely related substantive specializations. The CIA photo intelligence staff will consist of two groups, one with industrial and economic backgrounds and the other with geographic backgrounds involving the appreciation of terrain, hydrography and the characteristics of the cultural elements.
3. The fullest utilization of photo intelligence will result from the photo analysts and the substantive analysts working in close association, supplementing each other in the recognition of significant detail. The proposed photo intelligence staff is not envisaged as a producer of finished intelligence but as an active contributor to such intelligence. It will make extensive use, not only of available air and ground photography, but also of existing maps of large-scale and all types of intelligence documents and other data available to the Agency. The results of the staff's work will be sketches of installations with explanatory notations, sketches of terrain and hydrography suitable for use in map compilation and manuscript reports giving detailed analyses incorporating information derived from photography in association with other intelligence for areas and installations analyzed and treated in terms of specific problems for which the requesting analysts desire answers.
4. Appropriate members of the proposed staff will review current projects with a view toward recommending ways in which photo analysis can be of assistance in deriving significant intelligence of use in

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the preparation of reports, and will be available to render assistance to substantive analysts upon request.

5. Normal routine would be as follows:

- a. An operational or research problem arises which may be aided by photo intelligence.
- b. The responsible officer requests the assistance of an appropriate photo analyst.
- c. This photo analyst determines the character and extent of photo intelligence that can be derived from available photography.
- d. Photography is procured through Graphics Register Division, OCD.
- e. The photo analyst and the substantive analyst work jointly at the analyst's desk until the full scope of the problem is developed.
- f. If an extensive problem, additional work will be carried on by the photo analyst at his office with the assistance of such other material as necessary.
- g. Photo analyst provides sketches, tabulated metric data, and descriptions to the requesting analyst and works with that analyst, as necessary, in incorporating this additional intelligence into the frame work of the manuscript, map or plan under preparation.

6. Not only will the photo analysts keep abreast of incoming intelligence relating to specific problems assigned to them but they also will scan all mission review reports issued by the Air Force and Navy, thus remaining up-to-date on the availability of current photo coverage.

7. One objective for the photo intelligence staff will be the development of a mechanism, possibly a photo intelligence committee on which there would be representatives from the military services, for the purpose of fostering maximum use of photo interpretation facilities to meet national intelligence requirements and, of major importance, for formulating recommendations for air photographic missions to fulfill intelligence, rather than solely operational, requirements.

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8. Routine and time-consuming photo interpretation studies, not requiring the special skills of the CIA staff or close collaboration with substantive analysts, may be given to one of the military photo-interpretation units for completion, although experience has shown that operational priorities in those units present serious barriers.

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ANNEX "C"

ADMINISTRATIVE AND OPERATIONAL SUPPORT REQUIREMENTS

PHOTO INTELLIGENCE STAFF

1. Personal Services

- a. It is estimated that the required personnel strength for the Photo Intelligence Staff should be 12 photo-analysts and one clerk-stenographer by the end of May 1953. (The ORR budget estimate for fiscal 1954 provides for a Photo Intelligence Division, under the Deputy Assistant Director, Geography, composed of the Office of the Chief with three personnel and two branches -- the Industrial and Geographic -- each with 6 photo-analysts.)
- b. Because of the exceptional skills required, the necessary close collaboration with other analysts, the reliance placed upon supporting intelligence information and its analysis, and the anticipated position of leadership in the photo intelligence field that appropriate members of the staff will assume, it is necessary to obtain highly qualified individuals with wide experience and professional background.
- c. Because two basic types of photo intelligence are required within the Agency, it is proposed that two groups, one trained in the industrial and economic fields and the other in geographic and geologic fields, be recruited. This recruitment should be initiated at the earliest possible moment. (One photo-analyst of GS-13 Grade with long experience in photo intelligence within the industrial field is currently employed and assigned to the Office of the Deputy Assistant Director, Geography. An expert in the general field of photo intelligence has also been providing assistance on a consultant basis.)

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- d. It is proposed that employment will be phased in accordance with the following plan.

Grade	Position	-- EOD Date --				Personal Services
		1 Nov.	1 Jan.	1 March	1 May	
GS-11 1/4	Deputy & Acting Chief	1	-	-	-	\$ 6,400
GS-11 1/4	Photo Analyst (Geog)	1	-	-	-	6,400
GS-12	Photo Analyst (Ind)	1	-	-	-	4,693
GS-15	Chief		1	-	-	5,400
GS-11 1/4	Photo Analyst (Ind)		1	-	-	4,800
GS-13	Photo Analyst (Geog)		1	-	-	4,180
GS-12	Photo Analyst (Geog)		1	-	-	3,520
GS-6	Clerk-Stenographer		1	-	-	1,898
GS-11	Photo Analyst (Geog)			1	-	1,980
GS-11	Photo Analyst (Ind)			1	-	1,980
GS-9	Photo Analyst (Geog)				1 -	843
GS-9	Photo Analyst (Ind)				1 -	843
						<u>\$ 42,937</u>

2. Special Equipment

1	Fairchild Bench Stereoscope	-	-	-	-	-	-	-	-	\$ 350
1	Abrams Sketchmaster	-	-	-	-	-	-	-	-	100
10	Pocket Stereoscopes	-	-	-	-	-	-	-	-	100
										<u>\$ 550</u>

3. Special Supplies

10	6" scales at \$5.00 @	-	-	-	-	-	-	-	-	\$ 50
4	Graduated magnifiers at \$5.00 @	-	-	-	-	-	-	-	-	20
4	Slide rules at \$20.00 @	-	-	-	-	-	-	-	-	80
										<u>\$ 150</u>

4. Other

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████████████████████ for
photo-interpretation studies in accordance
with CIA specifications: 4 projects at \$500 @
TOTAL COST FOR FISCAL 1953

\$ 2,000
\$ 45,637

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5. Special Requirements

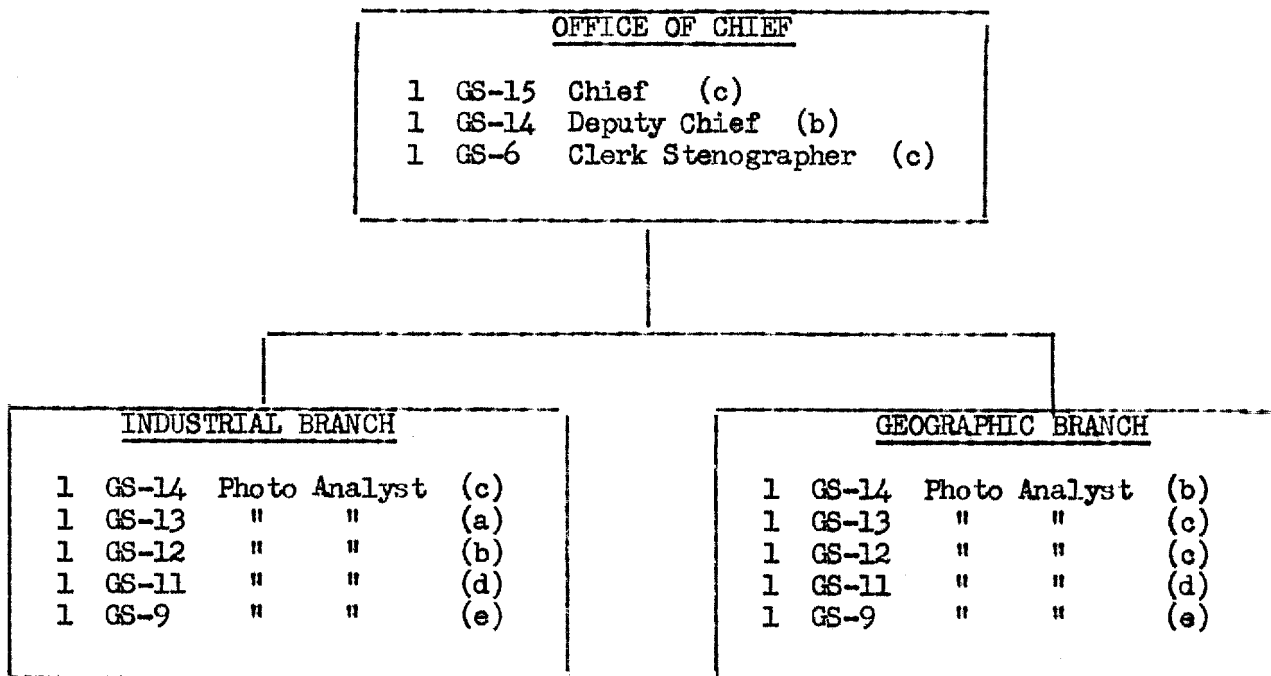
Desk space for conducting this work can be made available in Building 11 on a temporary emergency basis for the remainder of calendar year 1952. Therefore, 610 square feet initially and 1,000 square feet by 1 May 1953 will be required for separate office space. In addition to minimum normal requirements for each photo analyst, some additional space is needed for the use of special equipment.

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Proposed Table of Organization
Fiscal 1953
Photo Intelligence Division, ORR



- (a) On duty
- (b) EOD - 1 Nov.
- (c) " - 1 Jan.
- (d) " - 1 March
- (e) " - 1 May

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**Proposed Table of Organization
Fiscal 1953
Photo Intelligence Division, ORR**

OFFICE OF CHIEF

1 GS-15 Chief (c)
1 GS-14 Deputy Chief (b)
1 GS-6 Clerk Stenographer (c)

INDUSTRIAL BRANCH

1 GS-14 Photo Analyst (c)
1 GS-13 " " (a)
1 GS-12 " " (b)
1 GS-11 " " (d)
1 GS-9 " " (e)

GEOGRAPHIC BRANCH

1 GS-14 Photo Analyst (c)
1 GS-13 " " (c)
1 GS-12 " " (c)
1 GS-11 " " (d)
1 GS-9 " " (a)

(a) On duty
(b) NOV - 1 Nov.
(c) " - 1 Jan.
(d) " - 1 March
(e) " - 1 May

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